IN THE CLAIMS

Claim 1 has been amended as follows:

- 1. (Currently amended) A method for protecting a device against operation with an unallowed <u>tangible</u> consumable <u>product</u>, comprising the steps of:
 - (a) storing a plurality of reference code words at a data center;
 - (b) generating a code word having a predetermined relationship to at least one of said reference code words;
 - (c) <u>electronically</u> allocating said generated code word to a <u>non-monetary</u> specific an electronic representation of a tangible consumable product and storing said electronic allocation at said data center;
 - (d) aggregating a non-monetary, each physical authentic tangible replacement consumable product, corresponding to said specific electronically represented tangible consumable product, with said generated code word, during manufacturing of said replacement consumable at a manufacturer, by generating an identification number for the replacement consumable conforming to embodying said generated code word an aggregating the identification number with each physical authentic tangible replacement consumable product during manufacture of each authentic tangible replacement consumable product at a manufacturer;
 - (e) at a device located remote from said data center, detecting an operation to replace a <u>tangible</u> consumable <u>product</u> in said device with a <u>proposed</u> <u>tangible</u> replacement consumable <u>product</u> corresponding to said <u>specific consumable</u>, said <u>proposed tangible</u> replacement consumable

<u>product</u> having a <u>code word</u> <u>an identification number</u> aggregated therewith;

- (f) upon detection of said operation, <u>automatically</u> establishing a communication link between said device and said data center and communicating said code word <u>identification number</u> aggregated with said <u>proposed</u>, <u>tangible</u> replacement consumable <u>product</u> to said data center from said device via said link;
- (g) at said data center, checking authenticity of said <u>proposed</u>, <u>tangible</u> replacement consumable <u>product</u> by determining whether said code word <u>embodied in the identification number</u> aggregated with said <u>proposed</u>, <u>tangible</u> replacement consumable, and transmitted via said link, has <u>said</u> predetermined relationship with said at least one reference code word stored at said data center <u>and if so</u>, <u>authorizing</u> <u>said proposed</u>, <u>tangible replacement product</u>; and
- (h) via said link, informing said device <u>from said data center</u> whether said <u>proposed, tangible</u> replacement consumable is authorized.

Claim 2 has been amended as follows:

2. (Currently Amended) A method as claimed in claim 1 wherein step (d) comprises designating said identification number embodying said generated code word on a carrier and permanently affixing said carrier to said authorized each authentic, tangible replacement consumable.

Claim 3 has been amended as follows:

3. (Currently Amended) A method as claimed in claim 1 wherein step (d) comprises applying said identification number embodying said generated code word on said authorized each authentic, tangible replacement consumable as a marking.

Claim 4 has been amended as follows:

4. (Currently Amended) A method as claimed in claim 1 wherein step (d) comprises selecting a technique for aggregating said authorized each authentic, tangible replacement consumable product with said identification number embodying said generated code word dependent on a physical nature of said authorized authentic, tangible replacement consumable.

Claim 5 (Cancelled).

Claim 6 has been amended as follows

6. (Currently Amended) A method as claimed in claim 1 wherein said device is a franking machine which is loaded with a credit that is decremented upon each franking performed at said franking machine, and wherein said method comprises the additional step of maintaining a record of a credit status of said device at said data center device, and wherein step (f) includes transmitting a current credit status of said device to said data center via said data link together with said identification number embodying said code word aggregated with said proposed, tangible replacement consumable product, and wherein step (g) comprises determining, at said data center an amount of credit used by said device since an immediately preceding authorization of said tangible replacement consumable product, and from said determination of said credit used by said device, determining

at said data center a number of flankings performed by said device since said immediately preceding authorization, and classifying said device as suspect dependent on a relationship between said number of flankings.

Claim 7 has been amended as follows:

- 7. (Currently Amended) In a device which consumes a non-monetary tangible consumable product during operation thereof, the improvement of an arrangement for protecting said device against operation with an unallowed tangible consumable product, said arrangement comprising:
 - a detector which generates a detector signal upon detecting an operation for replacing a currently used non-monetary tangible consumable product with a non-monetary proposed, tangible replacement consumable product having a code word an identification number aggregated therewith;
 - a microprocessor supplied with said detector signal which, upon receipt of said detector signal, <u>automatically</u> establishes a communication link with a remote data center;
 - means for entering an input unit that enters said identification number code

 word aggregated with said proposed, tangible replacement

 consumable product into said microprocessor, and said microprocessor

 thereupon communicating said code word identification number to said

 remote data center; and
 - said microprocessor, via said communication link, receiving a message from said data center identifying whether said <u>proposed</u>, <u>tangible</u> replacement consumable <u>product</u> is authorized, and said

microprocessor modifying operation of said device, with regard to permitting usage of said proposed, tangible consumable product in said device, dependent on said message.

Claim 8 has been amended as follows:

8. (Currently Amended) An arrangement as claimed in claim 7 wherein said <u>tangible</u> consumable <u>product</u> is a liquid.

Claim 9 has been amended as follows:

9. (Currently Amended) An arrangement as claimed in claim 7 wherein said tangible consumable product is ink.

Claim 10 has been amended as follows:

10. (Currently Amended) An arrangement as claimed in claim 7 wherein said <u>tangible</u> consumable <u>product</u> has a non-solid aggregate state.

Claim 11 has been amended as follows:

11. (Currently Amended) An arrangement as claimed in claim 7 wherein said tangible consumable product is a solid.

Claim 12 has been amended as follows:

12. (Currently Amended) An arrangement as claimed in claim 7 wherein said <u>tangible</u> consumable <u>product</u> is an inking ribbon.

Claim 13 has been amended as follows

13. (Currently Amended) An arrangement as claimed in claim 7 wherein said <u>tangible</u> consumable <u>product</u> is an ink jet print head with an integrated ink tank.

Claim 14 has been amended as follows:

14. (Currently Amended) An arrangement as claimed in claim 7 wherein said <u>tangible</u> consumable <u>product</u> is a filled ink tank cassette.

Claim 15 has been amended as follows:

15. (Currently Amended) An arrangement as claimed in claim 7 wherein said detector comprises a sensor which detects a presence of said proposed, tangible replacement consumable product by physical interaction with said proposed, tangible replacement consumable product.

Claim 16 has been amended as follows:

- 16. (Currently Amended) An arrangement as claimed in claim 7 wherein said device is a printing device having a printer which produces a plurality of imprints, and wherein said tangible consumable product is a filled ink tank cassette connected to said printer, each of said imprints consuming ink from said ink tank cassette, and wherein said microprocessor counts said plurality of imprints to obtain an imprint count as an indication of an amount of ink remaining in said ink tank cassette.
- 17. (Original) An arrangement as claimed in claim 16 wherein said microprocessor determines a need for replacement of said ink tank cassette when said imprint count reaches a predetermined number.

Claim 18 has been amended as follows:

18. (Currently Amended) An arrangement as claimed in claim 7 wherein said device is a printing device having a printer for printing a plurality of imprints and wherein said <u>tangible</u> consumable <u>product</u> is a filled ink tank cassette connected to said printer, each of said plurality of imprints consuming ink from said

ink tank cassette, and wherein said detector comprises electrodes which electrically interact with said ink in said ink tank cassette to identify an amount of ink remaining in said ink tank cassette.

19. (Original) An arrangement as claimed in claim 18 wherein said ink tank cassette has an identifier thereon identifying a type of ink contained in said ink tank cassette, said identifier being enterable into said microprocessor.

Claim 20 has been amended as follows:

- 20. (Currently Amended) An arrangement as claimed in claim 7 wherein said microprocessor modifies operation of said device by disenabling further operation of said device if said message indicates said <u>proposed</u>, <u>tangible</u> replacement consumable <u>product</u> is not authentic.
- 21. (Original) An arrangement as claimed in claim 7 wherein said device further comprises a display in communication with said microprocessor, and wherein said microprocessor causes said message from said data center to be displayed on said display.

Claim 22 has been amended as follows:

22. (Currently Amended) A method as claimed in claim 1 wherein step (d) comprises storing said identification number eenforming to embodying said generating generated code word in an electronically readable chip and permanently associating said chip with said authorized authentic, tangible replacement consumable product, and wherein step (f) includes inserting said proposed, tangible replacement consumable product in said device and reading said code word embodied in said identification number aggregated therewith from said electronically readable chip.

- 23. (New) A system for protecting a device in the system against operation with an unallowed tangible consumable product comprising:
 - a device which consumes a tangible consumable product during operation thereof;
 - a data center located remote from said device and having a microprocessor and a memory accessible by said microprocessor, said memory containing a code word, having a predetermined relationship to a reference code word also stored at said data center, said code word being electronically allocated in said memory to an electronic representation of said tangible consumable product;
 - a detector at said device for detecting an operation at said device to replace said tangible consumable product in said device with a proposed, tangible replacement consumable product, said proposed, tangible replacement consumable product having an identification number aggregated therewith:
 - a device microprocessor at said device connected to said detector for, upon detection of said operation by said detector, automatically establishing a communication link with said microprocessor at said data center and communicating said identification number aggregated with said proposed, tangible replacement consumable product to said data center from said device via said link;
 - said microprocessor at said data center checking authenticity of said proposed, tangible replacement consumable product by determining



whether said identification number embodies a code word having the same predetermined relationship with said reference code word as the code word stored in the memory of the data center allocated to the electronic representation of the tangible consumable product and, if so, authorizing said proposed, tangible replacement product; and

said microprocessor at said data center, via said link, informing said device microprocessor whether said proposed, tangible replacement consumable product is authorized.

24. A system as claimed in claim 23 wherein said device is a franking machine which is loaded with a credit that is decremented upon each franking performed at said franking machine, and wherein said device microprocessor maintains a record of a credit status of said franking machine and transmits said credit status from said franking machine to said data center via said link together with said identification number, and wherein said microprocessor at said data center determines, from the transmitted credit status, an amount of credit used by said franking machine since an immediately preceding authorization of said tangible replacement consumable product, and from said determination of said credit used by said franking machine, said microprocessor at said data center determines a number of frankings performed by said franking machine since said immediately preceding authorization, and classifies said franking machine as suspect dependent on said number of frankings.